

PATENT ABSTRACTS OF JAPAN

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(71)Applicant : ARACO CORP

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(54) RECLINING DEVICE FOR VEHICLE SEAT

(57)Abstract:

PURPOSE: To prevent generation of looseness between both arms due to manufacturing errors by downsizing a reclining device without lowering strength of a connection part between a first and a second arms.

CONSTITUTION: A circular protruding step part 11 formed in one of a first and a second arms 10, 20 and a circular recessed step part 21 formed on the other are fitted to each other slidably in the circumferential direction, and both the arms 10, 20 are connected to each other relatively turnably around a hinge axis O. A ratchet tooth part 23 of the second arm 20 is formed as an internal tooth on a more inner side in the radial direction than respective circular step parts 11, 21, a pole tooth part 31 at a tip of a slide pole 30 guidedly supported on the first arm 10 is engaged with the ratchet tooth part 23 and a guide tooth part 13 of the first arm 10 via an interlocking mechanism by elastic energizing force, and is separated by external force applied via a release arm 43. In the pole tooth part 31, factors and the number of teeth are determined in such a manner that tangents of respective teeth surfaces being at the outermost sides and having the maximum crossing angles with pitch circles become parallel to each other or addendum sides thereof somewhat approach each other.

